



276

PATENT
Customer No. 22,852
Attorney Docket No. 04329.2756-00000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Masakazu SUZUKI et al.) Group Art Unit: 2176
)
Application No.: 10/087,772) Examiner: Unknown
)
Filed: March 5, 2002)
)
For: MATHEMATICAL EXPRESSION) Confirmation No.: 8810
RECOGNIZING DEVICE,)
MATHEMATICAL EXPRESSION)
RECOGNIZING METHOD,)
CHARACTER RECOGNIZING)
DEVICE AND CHARACTER)
RECOGNIZING METHOD)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents on the attached listing. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed documents are attached. Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

Also enclosed is a search report from the European Patent Office in a corresponding application citing these documents.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

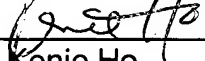
Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present Application.

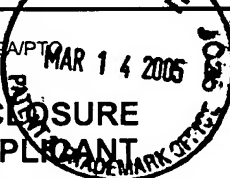
If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: March 14, 2005

By: 
Kenie Ho
Reg. No. 51,808



IDS Form PTO/SB/08: Substitute for form 1449 A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/087,772
Filing Date	March 5, 2002
First Named Inventor	Masakazu SUZUKI et al.
Art Unit	2176
Examiner Name	Unknown
Attorney Docket Number	04329.2756-00000

Sheet

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of

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U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS					
Examiner Initials	Cite No. ¹	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

Note: Copies of the U.S. Patent Documents are not Required in IDS filed after October 21, 2004

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation ⁶
		Srihari, R. K. et al., "Incorporating Syntactic Constraints in Recognizing Handwritten Sentences," PROCEEDINGS OF THE THIRTEENTH INTERNATIONAL JOINT CONFERENCE ON ARTIFICIAL INTELLIGENCE, Morgan Kaufmann Publishers, San Mateo, CA, USA, Vol. 2, Pgs. 1262-1267, August 28, 1993.	
		Blostein, D. et al., "Computing with Graphs and Graph Transformations," SOFTWARE PRACTICE & EXPERIENCE, John Wiley & Sons Ltd. Chichester, GB, Vol. 29, No. 3, Pgs. 197-217, March 1999.	
		Twaakyondo, H. M. et al., "Structure Analysis and Recognition of Mathematical Expressions," DOCUMENT ANALYSIS AND RECOGNITION, 1995, PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON MONTREAL, QUE., CANADA 14-16 AUGUST 1995, LOS ALAMITOS, CA, USA, IEEE Comput. Soc., US, Vol. 1, Pgs. 430-437, August 14, 1995.	
		Chang, Chao-Huang, "Word Class Discovery for Postprocessing Chinese Handwriting Recognition," PROC 15TH INT. CONF. ON COMPUTATIONAL LINGUISTICS - COLING 1994, Pgs. 1221-1225, August 5, 1994.	
		Toumit, J. Y. et al., "A Hierarchical and Recursive Model of Mathematical Expressions for Automatic Reading of Mathematical Documents," PROC. OF THE 5TH INT. CONF. ON DOCUMENT ANALYSIS AND RECOGNITION, ICDAR '99 (CAT NO. PR00318), IEEE Comput. Soc., Los Alamitos, CA, USA, Pgs. 119-122, September 20, 1999.	
		Hunsinger, J. et al., "A Single-stage Top-down Probabilistic Approach Towards Understanding Spoken and Handwritten Mathematical Formulas," PROC. 6TH INT. CONF. ON SPOKEN LANGUAGE PROCESSING - China Military Friendship Publishers, Vol. 4, Pgs. 386-389, October 16, 2000.	
		European Search Report for European Patent Application No. 02004377 from the European Patent Office dated February 2, 2005.	

Examiner Signature	Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.